

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ALLIA.62D3C3	APPLICATION NO. 10/644,634
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Schutt, et al.	
		FILING DATE August 19, 2003	GROUP 1616



U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	4	2	7	6	8	8	5	07/07/81	Tickner, et al.	128	660	
	4	4	6	6	4	4	2	08/21/84	Hilman, et al.	128	653	
	4	6	1	3	3	2	6	09/23/86	Szwarc	604	89	
	4	6	8	4	4	7	9	08/04/87	D'Arrigo	252	307	
	4	7	1	8	4	3	3	01/12/88	Feinstein	128	660	
	4	7	7	4	9	5	8	10/04/88	Feinstein	128	660.01	
	4	8	3	2	9	4	1	05/23/89	Berwing, et al.	424	9	
	4	8	4	4	8	8	2	07/04/89	Widder, et al.	424	9	
	4	8	9	8	7	3	4	02/06/90	Mathiowitz, et al.	424	426	
	4	9	2	7	6	2	3	05/22/90	Long, Jr.	424	5	

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		YES	NO											
Q		5	9	6	7	2	2	9	04/84	Japan				
W		0	2	3	0	0	9	1	08/87	Europe				
W		0	2	7	9	3	7	9	08/88	Europe				
Q		0	3	5	7	1	6	4	03/90	Europe (In German with Summary in English)				
W		0	3	5	9	2	4	6	03/90	Europe				
Q		9	1	0	9	6	2	9	07/91	Patent Cooperation Treaty				













EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
	1	Acoustic Non-Linearity Due to Micro-Bubbles in Water, Wesley & Safar, <i>Acustica</i> , 22: 177-182, 1969-70.										
	2	Ultrasonic Disruption, Alliger, Reprinted from <i>American Laboratory</i> , October 1975.										
	3	Demonstration of Nonlinear Acoustical Effects at Biomedical Frequencies and Intensities, Carstensen, et al., <i>Ultrasound in Medicine & Biology</i> , 6: 159-168, 1980.										
	4	Textbook of Diagnostic Ultrasonography, Second Edition, by Sandra Hagen-Ansert, pp. 10-12, 1983.										

EXAMINER HARTLEY	DATE CONSIDERED 10/19/04
*EXAMINER: INITIAL IF CITATION CONSIDERED. WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609: DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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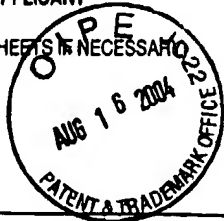
U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>[initials]</i>	4	9	5	7	6	5	6	09/18/90	Cerny, et al.	252	311	
<i>[initials]</i>	5	0	8	8	4	9	9	02/18/92	Unger	128	667.02	
<i>[initials]</i>	5	1	2	3	4	1	4	06/23/92	Unger	128	654	
<i>[initials]</i>	5	1	4	1	7	3	8	08/25/92	Rasor, et al.	424	2	
<i>[initials]</i>	5	1	4	9	3	1	9	09/22/92	Unger	604	22	
<i>[initials]</i>	5	1	5	5	2	1	5	10/13/92	Ranney	534	16	
<i>[initials]</i>	5	1	9	6	1	8	3	03/23/93	Yudelson, et al.	424	9	
<i>[initials]</i>	5	2	0	5	2	8	7	04/27/93	Erbel, et al.	128	632	
<i>[initials]</i>	5	2	0	5	2	9	0	04/27/93	Unger	128	653.4	
<i>[initials]</i>	5	2	7	1	9	2	8	12/21/93	Schneider, et al.	424	9	

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
		9	1	1	2	8	2	3	09/91	Patent Cooperation Treaty				
		9	1	1	5	9	9	9	10/91	Patent Cooperation Treaty				
		9	2	2	2	2	4	7	12/92	Patent Cooperation Treaty				
		9	3	0	0	9	3	0	01/93	Patent Cooperation Treaty				
		9	3	0	1	7	1	2	02/93	Patent Cooperation Treaty				
		9	3	0	3	6	7	1	03/93	Patent Cooperation Treaty				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
<i>[initials]</i>	5	Application of ultrasonic processors, Berliner, III, <i>Biotechnology Laboratory</i> , 46-52, March 1984.										
<i>[initials]</i>	6	Ultrasound Enhancement of Tissues During the Capillary Phase of PFOB - 100% Immediately Post Infusion, Mattrey, M.D., "Abstract, Association of University Radiologists" 35th Annual Meeting, March 22-27, 1987.										
<i>[initials]</i>	7	Perfluorochemicals as US Contrast Agents for Tumor Imaging and Hepatosplenography: Preliminary Clinical Results, Mattrey, M.D., <i>Radiology</i> , 163: 339-343, 1987.										
<i>[initials]</i>	8	Perfluorooctylbromide: A New Contrast Agent for CT, Sonography, and MR Imaging, Mattrey, M.D., Manuscript 1988										

EXAMINER <i>Forley</i>	DATE CONSIDERED <i>10/09/04</i>
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U.S. PATENT DOCUMENTS	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
le	5 3 1 5 9 9 7	05/31/94	Widder, et al.	128	653.3	
le	5 3 3 3 6 1 3	08/02/94	Tickner, et al.	128	662.02	
lo	5 3 3 4 3 8 1	08/02/94	Unger	424	9	
la	5 3 4 8 0 1 6	09/20/94	Unger, et al.	128	662.02	
la	5 3 5 2 4 3 5	10/04/94	Unger	424	9	
la	5 3 5 2 4 3 6	10/04/94	Wheatley, et al.	424	9	
la	5 1 9 5 5 2 0	05/23/93	Schliet, et al.	128	660.01	
la	5 5 8 5 1 1 2	12/17/96	Unger, et al.	424	450	
la	5 5 3 6 4 8 9	07/16/96	Lohmann, et al.	424	9.52	
la	4 5 7 2 2 0 3	02/25/86	Feinstein	128	661	

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
J S S S S		0	5	5	4	2	1	3	08/93	Europe				
		9	3	2	5	2	4	2	12/93	Patent Cooperation Treaty (Abstract & Claims)				
		0	4	5	8	7	4	5	09/94	Europe				
		9	4	2	1	1	7	5	09/94	Patent Cooperation Treaty				
		9	0	0	1	9	5	2	03/90	WO				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
la	9	Absorption and scatter of encapsulated gas filled microspheres: theoretical considerations and some measurements, de Jong, et al., <i>Ultrasonics</i> , 30: No. 3, 95-103, 1992
la	10	Simulated Capillary Blood Flow Measurement Using a Nonlinear Ultrasonic Contrast Agent, Schroepe, et al., <i>Ultrasonic Imaging</i> , 14: 134-158, 1992
la	11	Liposomes, From Biophysics to Therapeutics, Edited by Mark J. Ostro, Marcel Dekker, Inc., New York, pp. 2-8, 17-21, 74 and 105.
la	12	Foundation of Colloid Science, Volume 1, Hunter, et al., Clarendon Press, Oxford, pp. 20 & 22.
la	13	Peripheral Vascular Doppler Examinations, Rec. II, Textbook of diagnostic Ultrasonography, pp. 323-325.

EXAMINER WARTLEY	DATE CONSIDERED 10/09/04
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No
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date

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U.S. PATENT DOCUMENTS													
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)	
JD	5	4	1	0	5	1	6	04/25/95	Uhlendorf, et al.	367	7		
W	5	7	0	5	1	8	7	01/06/98	Unger				
g	5	4	6	9	8	5	4	11/28/95	Unger, et al.				
W	5	5	4	2	9	3	5	05/06/96	Unger, et al.				

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
CS	WO	89	0	6	9	7	8		08/25/89	Australia				
JD	WO	92	2	2	2	4	9		12/23/92	PCT				
JD	WO	94	1	6	7	3	9		08/04/94	PCT				
JD	WO	95	1	6	4	6	7		06/22/95	PCT				
JD		2	0	7	7	3	8	3	09/02/92	Canada				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)												
<i>JD</i>	14	"Principles and Recent Developments in Ultrasound Contrast Agents", N. de Jong, et al., <i>Ultrasonics</i> , 29:324-330, 1991											
<i>JD</i>	15	"First Ultrasound Contrast Agent Awaits OK from FDA", Greer, <i>Advance for Radiologic Science Professionals</i> , pp. 3-5, 1993											
<i>JD</i>	16	Kitagawa, et al. <i>Biological Abstracts</i> 63:6392 (1977)											
<i>JD</i>	17	Keough, et al. <i>Biological Abstracts</i> 81:105308 (1988)											

EXAMINER <i>Harvey</i>	DATE CONSIDERED <i>10/19/04</i>
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
2	18	Matsuda, et al. "Contrast Echocardiography of the Left Heart by Intravenous Injection of Perfluorochemical Emulsion" <i>J. of Cardiology</i> 13(4):1021-1028 (1983)										
	19	Sunamoto, et al. "Liposomal Membranes" <i>J. Biochem.</i> 88:1219-1226 (1980)										
2	20	Mattrey, R.F., M.D., "Perfluorooctylbromide: A Liver/Spleen-Specific and Tumor-Imaging Ultrasound Contrast Material" <i>RADIOLOGY</i> 145(3):759-762 (1982)										
	21	Goldberg, et al., <i>Ultrasound in Med. & Biol.</i> 20:319-333 (1994)										
2	22	Schrope, et al., <i>Ultrasound in Med. & Biol.</i> 19:567-579 (1993)										
	23	Mattrey, Art., <i>Cels, Blood subs., and Immob. Biotech</i> 22:295-313 (1994)										

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ro	4 6 5 8 8 5 6	04/14/87	Rasor, et al.	424	9	
sch	4 9 0 4 4 7 9	02/27/90	Illum	424	490	
re	4 9 2 5 6 7 8	05/15/90	Ranney	424	493	
re	5 1 0 8 7 5 9	04/28/92	Ranney	424	493	
re	5 1 8 6 9 2 2	02/16/93	Shell, et al.	128	654	
re	5 1 9 0 9 8 2	03/02/93	Erbel, et al.	521	56	
re	5 3 0 5 7 5 7	04/26/94	Unger, et al.	128	662.02	
re	5 3 1 0 5 4 0	05/10/94	Giddey, et al.	424	9	
re	5 3 1 5 9 9 8	05/31/94	Tachibana, et al.	128	660.01	
re	5 3 7 6 3 8 0	12/27/94	Kikuchi, et al.	424	450	

FOREIGN PATENT DOCUMENTS									
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION			
						YES	NO		
re	1 2 3 2 3 5 B1	10/31/84	EPO						
re	1 3 1 5 4 0 A2	01/16/85	EPO (Abstract and translation of Claims)			Claims			
re	2 3 1 0 9 1 A1	08/05/87	EPO						
re	5 8 6 8 7 5 A1	02/01/89	EPO				No		
re	3 2 0 4 3 3 A3	06/14/89	EPO (Abstract and translation of Claims)			Claims			
re	8 9 0 5 1 6 0	06/15/89	PCT			Abstract			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)								
re	24	Peter N. Burns, <i>Radiological Medica</i> 87:71-82 (Suppl. 1 at. n.5, 1994)							

EXAMINER HARVEY	DATE CONSIDERED 10/19/09					
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5	3	8	0	5	1	9	01/10/95	Schneider, et al.	424	9	
5	3	9	3	5	2	4	02/28/95	Quay	424	9	
5	4	0	9	6	8	8	04/25/95	Quay	424	9	
5	4	1	3	7	7	4	05/05/95	Schneider, et al.	424	9.51	
5	5	5	6	6	1	0	09/17/96	Yan, et al.	424	9.52	
5	5	5	8	0	9	4	09/24/96	Quay	128	662.02	
5	5	5	8	8	5	3	09/24/96	Quay	424	9.5	
5	5	5	8	8	5	4	09/24/96	Quay	424	9.52	
5	5	5	8	8	5	5	09/24/96	Quay	424	9.5	
5	5	5	8	8	5	6	09/24/96	Klaveness, et al.	424	9.37	

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
62108		3	0	3	5	1	8	9	08/25/89	Australia				
		9	3	0	0	9	3	0	01/21/93	PCT				
		9	3	0	2	7	1	2	02/18/93	PCT				
		9	3	0	5	8	1	9	04/01/93	PCT				
		9	3	0	6	8	6	9	04/15/93	PCT				
60		9	4	0	1	1	4	0	01/20/94	PCT (Abstract and translation of Claims)			Claims	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER <i>HARTW</i>	DATE CONSIDERED <i>10/19/04</i>
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		5	5	5	8	8	5	7	09/24/96	Klaveness, et al.	424	9.52	

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K		9	4	0	6	4	7	7	03/31/94	PCT				
Q		9	4	0	8	7	0	7	04/28/94	PCT				
A		9	4	0	9	7	0	3	05/11/94	PCT			Claims	
B		9	4	0	9	8	2	9	05/11/94	PCT				
		6	0	6	6	1	3	A1	07/20/94	EPO				
O		9	4	1	6	7	3	8	08/04/94	PCT				

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EXAMINER	LANLEY	DATE CONSIDERED	10/19/04
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